

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: November 25, 2000, 03:51:15 ; Search time 853.82 Seconds

(without alignments)
3410.674 Million cell updates/sec

Title: US-09-373-230-1

Perfect score: 471

Sequence: 1 AACCTTGCCGACCTTCACTG.....TCACTACTTACATCAAGT 471

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7189864 seqs, 3091403243 residues

Total number of hits satisfying chosen parameters: 14379728

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008

Listing first 45 summaries

Database :

```
EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_est3:*
4: gb_est4:*
5: gb_est5:*
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115: gb_gss16:*
116: gb_gss17:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	465.8	98.9	603	7	AA930362	AA930362 vs59f07.r
2	400.6	85.1	646	7	AA892285	AA892285 EST196088
3	365.6	77.6	512	20	AM125102	AM125102 UI-M-BH2
4	337.6	71.7	474	2	AI121020	AI121020 ud69c02.x
5	308.6	65.5	434	2	AA237736	AA237736 mx229g01.r
6	274	58.2	469	10	AI63005	AI63005 VB89g05.x
7	260.8	55.4	423	23	AM58748	AM58748 L0299E02-
8	239.8	50.9	443	19	AV597984	AV597984 AV597984
9	208	44.2	357	19	AM049334	AM049334 UI-M-BH1-
10	207.4	44.0	369	9	AI176343	AI176343 EST219926
11	197.4	41.9	342	13	AI835755	AI835755 UI-M-A10-
12	191.6	40.7	335	15	AV066410	AV066410 AV066410
13	173.4	36.8	289	2	AA245600	AA245600 mx30a01.r
14	166.8	35.4	505	8	AI046315	AI046315 ud69c02.y
15	155.6	33.0	574	19	AV597985	AV597985 AV597985
16	153.8	32.7	294	15	AV072353	AV072353 AV072353
17	153.8	32.7	354	12	AI642457	AI642457 VV80b10.x
18	153.4	32.6	292	15	AV063007	AV063007 AV063007
19	151.6	32.2	287	15	AV065008	AV065008 AV065008
20	148.4	31.5	276	15	AV078115	AV078115 AV078115
21	148	31.4	285	15	AV032583	AV032583 AV032583
22	144	30.6	306	15	AV069911	AV069911 AV069911
23	142.4	30.2	300	16	AV169683	AV169683 AV169683
24	139.4	29.6	300	17	AV239413	AV239413 AV239413
25	138.4	29.4	294	15	AV067717	AV067717 AV067717
26	138	29.3	293	15	AV067682	AV067682 AV067682
27	135.6	28.8	293	15	AV076434	AV076434 AV076434
28	130.4	27.7	279	15	AV087765	AV087765 AV087765
29	124.8	26.5	281	15	AV062592	AV062592 AV062592
30	124.8	26.5	267	21	AM38535	AM38535 xw80b03.x
31	117.2	24.9	259	15	AV071444	AV071444 AV071444
32	114	24.2	549	20	AM151778	AM151778 xf69b11.x
33	92	19.5	515	13	AI800476	AI800476 fj14h05.x
34	78	16.6	655	96	AO377384	AO377384 RPTC11-16
35	63.8	13.5	325	20	AM142282	AM142282 EST92531
36	57.2	12.1	188	15	AV077488	AV077488 AV077488
37	56.6	12.0	468	8	AI129421	AI129421 qc38g11.x
38	54.2	11.5	196	8	AV328761	AV328761 AV328761
39	49.6	10.5	309	38	N83242	N83242 K4592F Huma
40	47.6	10.1	438	9	AI247015	AI247015 gx52c10.x
41	42.8	9.1	188	15	AV069285	AV069285 AV069285
42	39.6	8.4	442	99	AO592903	AO592903 HS_5453_A
43	37.6	8.0	442	1	AA129391	AA129391 zn85b03.s
44	37.6	8.0	1101	121	CNS0039G	AL063321 Drosophila
45	37.4	7.9	751	23	AM687654	AM687654 NF011G05R

ALIGNMENTS

RESULT 1
AA930362

LOCUS	AA930362	603 bp	mRNA	EST	23-Apr-1998
DEFINITION	vs59f07.r1 Stratiogene mouse skin (#937313) Mus musculus cDNA clone IMAGE:1150597 5' similar to gb:D49949 Mouse mRNA for IGF precursor polypeptide (MOUSE), mRNA sequence.				
ACCESSION	AA930362				
VERSION	AA930362.1 GI:3079955				
KEYWORDS	EST				
ORGANISM	house mouse.				
SOURCE	Mus musculus				
REFERENCE	Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 603)				
AUTHORS	Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, B., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.				
TITLE	The Mashu-HMT Mouse EST Project				
JOURNAL	Unpublished (1996)				
COMMENT	Contact: Marra M/Mouse EST project WashU-HMT Mouse EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@wustl.edu This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:62805 Seq primer: -28m13 rev1 ET from Amersham High quality sequence stop: 445.				
FEATURES	Location/Qualifiers				
source	1..603 /organism="Mus musculus" /strain="C57BL/6" /db_xref="taxon:10090" /clone="IMAGE:1150597" /clone_1lb="Stratiogene mouse skin (#937313)" /sex="females" /tissue_type="whole skin" /dev_stage="11 weeks old" /lab_host="SOLR (kanamycin resistant)" /note="Organ: skin; Vector: pBluescript SK-; Site: 1; EcotRI : Site: 2; XhoI: Cloned unidirectionally. Primer: Oligo dT. Whole skin from 11 week old C57BL/6 female mice. Average insert size: 1.0 kb; Uni-ZAP XR Vector: -5' adaptor sequence: 5' CTCGAGTCTTCTTTTCTTTTCTT 3' sequence: 5' CTCGAGTCTTCTTTTCTTTTCTT 3'				
BASE COUNT	197 a 111 c 132 g 163 t				
ORIGIN					
Query Match	98.9%; Score 465.8; DB 7; Length 603;				
Best Local Similarity	99.2%; Pred. No. 1e-115;				
Matches 467; Conservative	1; Mismatches 3; Indels 0; Gaps 0;				
QY	1	AACTTTGGCGGACTTACGTACCAACCGAGTAATACGGAATATAAGACCACTTC	60		
DB	5	AACTTTGGCGGACTTACGTACCAACCGAGTAATACGGAATATAAGACCACTTC	64		
QY	61	TTTCGTGACAAAAGACAGCGCTGTTCGAGATATGATATTTGATCAAAAGTCCAGT	120		
DB	65	TTTCGTGACAAAAGACAGCGCTGTTCGAGATATGATATTTGATCAAAAGTCCAGT	124		
QY	121	GAACCCGACGACGACTGATATATACATGATCAAAAGACAGTGAAGTACGAGCT	180		
DB	125	GAACCCGACGACGACTGATATATATACATGATCAAAAGACAGTGAAGTACGAGCT	184		
QY	181	GTGACCCCTCTGTGTAAGATAGTAAAGTCTACCCCTCTCTGTAAGCAAGATCAT	240		
DB	185	GTGACCCCTCTGTGTAAGATAGTAAAGTCTACCCCTCTCTGTAAGCAAGATCAT	244		
QY	241	TCCTTTGAGAAATGATCACCCTGAATATATGATATACAAAGTATCTCATATTC	300		

Db	245	TCCTTTGAGGAAATGATCCACCTGAAATATTGATGATATACAAAGTACCTCATATTC	304
Oy	301	TTTCAGAAAACGTTGTCAGACACAAACAAGATGGATTTGAATCTTCACCTGATGAAGA	360
Db	305	TTTCAGAAAACGTTGTCAGACACACAAAGATGGATTTGAATCTTCACCTGATGAAGA	364
Oy	361	CACCTTCTTGCTGCCAAAAGAGATGATGCTTTCAAACCTATTCGTGAAAAAAGAT	420
Db	365	CACCTTCTTGCTGCCAAAAGAGATGATGCTTTCATATCTGATTCGAAAAAAGAT	424
Oy	421	GAATATGGGATTAATCTGAATGGTCACTGCTCACTAATTAATCAAAAGT	471
Db	425	GAATATGGGATTAATCTGAATGGTCACTGCTCACTAATTAATCAAAAGT	475

RESULT	2				
LOCUS	AA892285/c				
DEFINITION	AA892285	646 bp	EST	25-Jan-1999	
ACCESSION	EST196088	Normalized rat kidney,	Bento Soares	Rattus sp.	CDNA clone
VERSION	AA892285				
KEYWORDS	AA892285.1	GI:3019164			
SOURCE	EST.				
ORGANISM	Rattus sp.				
	Rattus sp.				

REFERENCE 1 (bases 1 to 646)
AUTHORS Lee, N.H., Glodok, A., Chandra, I., Mason, T.M., Quackenbush, J., Kellavange, A.R. and Adams, M.D.
TITLE Rat Genome Project: Generation of a Rat EST (RESt) Catalog & Rat Gene Index
JOURNAL Unpublished (1998)
COMMENT Contact: Lee, NH

ATCC
The Institute for Genomic Research
3550
Rm 212, Medical Center Drive, Rockville, MD 20850, USA
Tel: (301) 515-8000
Fax: (301) 838-0308
Email: nhlee@tigr.org
Seg primer: M13-21.
Location/Qualifiers
1. 646
source

```

/organism="Rattus sp."
/ad_xref="ATCC (hncsf):2017880"
/ad_xref="tadon:10118"
/ad_xref="RG:2000"
/clone_1ib="Normalized rat kidney, Bento Soares"
/note="Organ: kidney; Vector: pW718pc; Site_1: ECoRI,
Site_2: NotI"
BASE COUNT      177 a      126 c      123 g      220 t
BRIN

```

Query Match	85.1%;	Score 400.6;	DB 7;	Length 646;
Best Local Similarity	91.8%;	Pred. No. 4.4e-98;		
Matches 434;	Conservative	1;	Mismatches 35;	Indels 3;
				Gaps 1

Qy	2	ACTTTGGCGAGCTTACGTGTCAACGCCAGTATATACGAATATTAAGCAAACTTCT	61
Db	579	ACTTTGGGAGCTTACTCTGTATACACCCGATATATGGGAGCATTAATAGCAACAGTTCTCT	520
Qy	62	TGCTTGCACAAAATA---CAGCGTGTGTGCAGATATACGATATTTGATCAAACTGCCA	118
Db	519	TGCTTGCACAAAATAAACCGCGCTGTTCGACGATATGCGTGAATATGACCGACACAGCA	460
Qy	119	GTGACACCCGAGACACATCTGATATATACATGTACAAAAGACAGTAAGTAAGAGACTGG	178
Db	459	ACGATATCCAGACACATCTGATATATATATGTACAAAAGATATGAAATGAAGAGACTGG	400
Qy	179	CTGTGACCCCTCTCTGTGAAGATAGTAATAATGTCTACCCCTCTCTCTGTGAAGAACAGATCA	238

Accession	Sequence	Position
Db		11111
399	CTGTGACCCATATCTGTGAAGGATGGAAGATGTCTACCCCTCTCTGTAAAAACA	340
Qy	TTTTCTTTGGAGAAATGATCCACTGAAATTTGATGATATACAAATGATCTCAT	298
Db		11111
339	TTTCTTTGGAGAAATGATCCACTGAAATTTGATGATATAAAGATGTCATAT	280
Qy	TTTTTCAGAAACGTGTTCAGACACACAAGATGATTTGAATCTTCACTGTATGAG	358
Db		11111
279	TCTTTCAAAAACGTGTGCCAGACACAAAATGGAATTTGAATCTTCCGTATGAG	220
Qy	GACACTTCTTCGTCCAAAGAGAAATATGCTTTAAACATCTCGAAAAAAGG	418
Db		11111
219	GACACTTCTTCGTCCAAAGAGAAATATGCTTTAAACATCTCGAAAAAAGG	160
Qy	ATGCAAAATGGGGATTAATCTGTAAATGTTCACCTGCATTAATCTACATCAAA	471
Db		11111
159	ATGCAAAATGGGGATTAATCTGTAAATGTTCACCTGCATTAATCTACATCAAA	107

RESULT	3
LOCUS	AM125102/c
DEFINITION	512 bp mRNA
ACCSSION	U1-M-BH2.1- <i>apx-g-10-0-U1-s1 NIH BMP M</i> EST Mus musculus CDNA clone
VERSION	U1-M-BH2.1- <i>apx-g-10-0-U1-3'</i> , mRNA sequence.
KEYWORDS	AM125102.1 GI:6100652
SOURCE	EST
ORGANISM	house mouse.

[illegible]

National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890
Email: mstremall.nih.gov

The sequence contained an oligo-dT track that was present in the oligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. The sequence tag present in the cDNA between the NotI site and the oligo-dT track served to identify it as a clone from the normalized basal ganglia library cDNA Library Preparation: M.B. Soares Lab Clone distribution: NIH BMAP cDNA clones will be made available by the means that is soon to be determined. When NIH determines the means for distribution of the BMAP cDNA clones, this record will be updated accordingly when that means is determined.

The following repetitive elements were found in this cDNA sequence:
17-81, >MST0LTR/MaLR
Seq primer: M13 Forward
POLYA=yes.

```

FEATURES
source
    Location/Qualifiers
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            /organism="Mus musculus"
            /strain="CS7BL/6J"
            /db_xref="taxon:10090"
            /clone="U1-M-BH2.1-apt-g-10-0-01"
            /clone_11b="NIH_BMAP_M_S3.1"
            /dev_stage="27-32 days"
            /lab_host="DH10B (Life Technologies)"
            /note="Vector: pYT73D-Pac (Pharmacia) with a modified
polylinker. Site 1: Not I; Site 2: Eco RI; The
NIH_BMAP_M_S3.1 library is a subtracted library of a
series, ultimately derived from a mixture of individually
tagged normalized libraries from ten regions of the mouse

```


RESULT	5	AA237736	434 bp	mRNA	EST	03-MAR-1997
LOCUS		AA237736				
DEFINITION		mx29g01.f1 Soares mouse NML Mus musculus cDNA clone IMAGE:681648	5'			
ACCESSION		AA237736				
VERSION		AA237736.1	GI:1861775			
KEYWORDS		EST				
SOURCE		house mouse				
ORGANISM		Mus musculus				
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
AUTHORS		1 (bases 1 to 434) Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Schell, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.				
TITLE		The Mashu-HMI Mouse EST Project				
JOURNAL		Unpublished (1996)				
COMMENT		Contact: Marra M/Mouse EST Project Mashu-HMI Mouse EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@wustl.wustl.edu This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information. MG1:421352				
FEATURES		Putative full length read vector to vector length is 437 Seq primer: -28ml3 rev2 ET from Amersham. Location/Qualifiers				
source		1..434 /organism="Mus musculus" /db_xref="taxon:10090" /clone="IMAGE:681648" /clone_lib="Soares mouse NML" /library_type="Liver" /lab_host="DH10B" /note="Vector: p773D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAGTGGGAGCGGCGGCGGAATCTTTTATTTTATTTT 3']; (double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p773 vector. Library constructed and normalized by Bento Soares and M.Fatima Bonalao."				
BASE COUNT		139 a	79 c	92 g	124 t	
ORIGIN						
Query Match		65.5%	Score 308.6:	DB 2:	Length 434:	
Best Local Similarity		99.7%	Pred. No. 3e-73:			
Matches 308;		Conservative 1;	Mismatches 0;	Indels 0;	Gaps 0;	
QY	163	GAGCTAAGAGACGTGCGTGCAGCCCTCTCTGTGAAGATGATTAATATTCATCCCTCCG	222			
DB	1	GAGGTAGAGAGACTGGCTGTGACCTCTCTGTGAAGATGATTAATATTCATCCCTCCG	60			
QY	223	TGTGAAGACAGATCATTTCCGTTTGAGGAATGGATTCACCTGAAAATTTGATGATATA	282			
DB	61	TGTGAAGACAGATCATTTCCCTTTGAGGAATGGATTCACCTGAAAATTTGATGATATA	120			
QY	283	CAAGTGATCTCATTTCTTTTCAGAAAGGTGTTCCAGACACAACAAGATGAGTTGAA	342			
DB	121	CAAGTGATCTCATTTCTTTTCAGAAAGGTGTTCCAGACACAACAAGATGAGTTGAA	180			

QY	343	TCCTCAGCGTGTGAAGGACACCTTCTCTTCCTGCCCAAAAGGAAGATGCTTTCACAAAC	402
Db	181	TCCTCAGCGTGTGAAGGACACCTTCTCTTCCTGCCCAAAAGGAAGATGCTTTCACAAAC	240
QY	403	ATTCGAAAAAAGATGAAATGGGGTAAATCCTGATGTCACCTCATAACTTA	462
Db	241	ATTCGAAAAAAGATGAAATGGGGTAAATCCTGATGTCACCTCATAACTTA	300
QY	463	CATCAAGT 471	
Db	301	CATCAAGT 309	
RESULT	6		
LOCUS	AI463005/c		
DEFINITION	vb89g05.x1 Soares mouse 3NBMS Mus musculus cDNA clone IMAGE:64216		
ACCESSION	AI463005		
VERSION	AI463005.1		
KEYWORDS	GI:4317035		
SOURCE	EST.		
ORGANISM	house mouse.		
REFERENCE	Mus musculus		
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
TITLE	1 (bases 1 to 469)		
JOURNAL	Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Waller, T., Gibbons, M., Page, D., Harvey, N., Schur, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.		
COMMENT	The WashU-NCI Mouse EST Project 1999		
	Unpublished (1999)		
	Contact: Maria M/WashU-NCI Mouse EST Project 1999		
	Washington University School of Medicine		
	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA		
	Tel: 314 286 1800		
	Fax: 314 286 1810		
	Email: mouseest@wustl.edu		
	This clone is available royalty-free through INLTL; contact the		
	IMAGE Consortium (info@image.lnln.gov) for further information.		
	MG1:465136		
	This clone was previously sequenced on the 5' end only, this new		
	data is from the 3' end		
	High quality sequence stop: 324.		
FEATURES	Location/Qualifiers		
SOURCE	1. 469		
	/organism="Mus musculus"		
	/strain="C57BL/6J"		
	/db_xref="taxon:10090"		
	/clone IMAGE:764216"		
	/clone_lib="Soares mouse 3NBMS"		
	/sex="male"		
	/library="Splieen"		
	/dev_stage="4 weeks"		
	/lab_host="DH10B"		
	/note="Vector: pRTT3D-Pac (Pharmacia) with a modified		
	polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA		
	primer: Site 1: Not I - oligo(dT) primer [5'		
	TCGTACCAATCGTAGAGTGGAGCGGCGCGCGTGTGTGTGTGTGTGTGTGT		
	3']; double-stranded cDNA was ligated to Eco RI adaptors		
	(Pharmacia), digested with Not I and cloned into the Not I		
	and Eco RI sites of the modified pRTT3 vector. RNA		
	provided by Dr. Bertrand Jordan. Library went through		
	three rounds of normalization, and was constructed by		
	Bento Soares and M.Felina Bonaldo."		
BASE COUNT	132 a 99 c 90 g 144 t 4 others		
ORIGIN			
Query Match	58.28; Score 274; DB 10; Length 469;		
Best Local Similarity	50.7%; Pred.No. 6.3e-64;		

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1. .423
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="L0299E02"
/clone_1fp="Mouse Newborn Ovary cDNA Library"
/sex="female"
/dev_stage="Newborn ovary"
/lab_host="DH10B"
/notes="Vector: pSPORT1 (Gibco/BRL Life Technology);
Site_1: SalI; Site_2: NotI; Total RNAs were extracted from
7 Newborn Ovary. The double-stranded cDNA was synthesized
by Gibco's kit with an Oligo(dT) primer [NotI
primer-adaptor from GibcoBRL]
[5'-pGACGTGTTTCAGACGCGGCGGCGCCCTTTTTTTTTTTT-3'] from
2.5ug of total RNA. The double-stranded cDNAs were
created with T4 DNA polymerase and purified by

```

```
FEATURES
source      Location/Qualifiers
1. .443     /organism="Bos taurus"
            /db_xref="taxon:9913"
```


VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT
 Genomae Science Laboratory
 RIKEN

Email: genome-res@rc.riken.go.jp
Thermotranscription and thermoactivation of thermolabile enzymes by trehalose and its application for the syntheses of full length cDNA (Proc. Natl. Acad. Sci. U.S.A. 95(2):520-524 (1998))
Transpositional sequencing: A method for DNA sequencing using RNA polymerase (Proc. Natl. Acad. Sci. U.S.A. 95(7):3455-3460 (1998))
Please visit our web site (<http://genome-rtc.riken.go.jp>) for further details.

FEATURES	Location/Qualifiers
SOURCE	1. .335
	/organism="Mus musculus"
	/strain="C57Bl/6J"
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Db 1	AAATATTTGGATCATATACAAAGTATGATCTCATATTTCTTTTGGACACCGTTCAGAGACA	60		
QY 326	ACAGATGGAGCTTTGAACTCTCAGCTGATGAGAGACACTTCTTGCTGGCCAAAAGAG	385		
Db 61	ACAAATATGGAATTTGAAATTTTCAATCTATGAGAGACACTTCTTGCTGGCCAAAAGAG	120		
QY 386	ATGATGCTTTTAAACTCATCTCGAAAAAAGAGATGAAAATGGGAGTAAATCTGTATGT	445		
Db 121	ATGATGCTTTTAAACTCATCTCGAAAAAAGAGATGAAAATGGGAGTAAATCTGTATGT	180		
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Db 181	TCACCTCTCACTTACTTACATCAAAGT	206		
RESULT 13				
LOCUS AA245600				
DEFINITION	AA245600	289 bp	mRNA	EST
DEFINITION	mx30a01.1	Soares mouse NIH	Mus musculus cDNA clone IMAGE:681672	10-MAR-1997
DEFINITION	Similar to gb:D49949	Mouse mRNA	For Igf1 precursor polypeptide	5
DEFINITION	(MOUSE); mRNA sequence.			
ACCESION	AA245600			

VERSION AA245600.1 GI:1876519
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus.
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Mus.
 1 (bases 1 to 289)
 REFERENCE Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
 Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
 Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
 Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
 Waterston, R.
 TITLE The WashU-HHMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Marra M/Mouse EST Project
 WashU-HHMI Mouse EST Project
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810

Email: mouseest@watson.wustl.edu
This clone is available royally-free through LLNL
IMGE Consortium (info@image.llnl.gov) for further information.
MGI:421376
Trace considered overall poor quality
Seq primer: -28m3 rev2.ET from Amersham
High quality sequence stop: 1.

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FEATURES
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                /note="Vector: pRT3D-Not I; Site-2: Eco RI; 1st strand cDNA polymerase. Site-1: Not I; Site-2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5'-TGTTACCAATCTGCAGTCGACGGCGCGGAGATCTTTTTTTTTTTTTTTT 3']; double stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pRT3 vector. Library constructed and normalized by Bento Soares and M.Falma Bonaldo."
BASE COUNT
    77 a      51 c      75 g      86 t
ORIGIN

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Query Match	36.8%	Score 173.4	DB 2	Length 289
Best Local Similarity	79.2%	Pred. 0.5e-37		
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Db	1	TATGTAGACTAGTTGTGTATGCTCTGTGTGAAGATGCTATATGTGCATGGCGCTGTGTA	60	
QY	227	AGACAAATATATTTCT-TTGAGGAATGATACACATCCAAATATATGATGATATACAA	285	
Db	61	AGACAAAGATATTTCTAGTGTGAGGAATGATATACACTGTCAATATCTGACGGTATGAC	120	
QY	286	AGTGATCTCATATTTCTTCAGAACGCTGTCCAGGACACAAAGATGGAAGTTGA-ATC	344	
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Db	181	TGCTGTGCTTTGTGTCACTTCTTGCTTGCTGTATAAAGATGATGATGCTCTGTACAT	240	
QY	405	TCGTGAAAAAAGGATGAAATGGGATTAATCTGTATGTTCACTCTC	453	
Db	241	TCGTGACCAACAGGATGATGATGAGGAATCAATCGATGGTTCACCTCTC	289	

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